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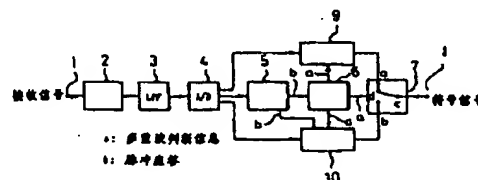
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[54] 发明名称 自适应均衡接收机及最大似然系列推算接收机

[57] 摘要

为对传送特性的衰退进行补偿, 提供自适应均衡接收机及最大似然系列推算接收机。传送通路推算电路(5)从接收信号推算传送通路的脉冲应答。基于推算出的脉冲应答, 开关(7)对将接收信号进行自适应均衡处理的自适应均衡电路(10)的输出和将接收信号仅以符号判定输出的符号判定电路(9)的输出之间作选择输出。然后, 在接收信号的自适应均衡中, 采用抽头数可变的自适应滤波器, 根据抽头数设定装置推算出的脉冲应答, 控制滤波器的抽头数。



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**ADAPTATIVE EQUALIZING RECEIVER AND MAXIMUM  
LIKELIHOOD SEQUENCE ESTIMATION RECEIVER.**

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Cited

Documents: EP0415897; EP0426026

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**Abstract**

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A receiver for compensating the deterioration of transmission characteristics, in which a transmission path estimation circuit (5) estimates the impulse response of the transmission path from the received signal. Bases upon the estimated impulse response, a switch (7) outputs selectively one of the outputs of an adaptative equalizing circuit (10) which adaptively equalize the received signal, and of a sign judging circuit (9) which is output only by judging the sign of the received signal. Then, a variable number-of-tap adaptive filter is used for the

adaptive equalization of the received signal. Based on the estimated impulse response, the number-of-tap setting means controls the number of taps of the adaptive filter. Also, for the adaptive equalization of the received signal, there are used a transversal type matching filter, and a status estimation circuit which estimates the maximum likelihood of the transmission symbol string by the output from the matching filter. The number-of-tap setting means controls the number of statuses to be considered in accordance with the estimated impulse response.